

BEST AVAILABLE COPY PATENT COOPERATION TREATY

PCT/JP97/03846

PCT**NOTIFICATION OF ELECTION**

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

United States Patent and Trademark
Office
(Box PCT)
Crystal Plaza 2
Washington, DC 20231
ÉTATS-UNIS D'AMÉRIQUE

in its capacity as elected Office

Date of mailing (day/month/year)

14 June 1999 (14.06.99)

International application No.

PCT/JP97/03846

Applicant's or agent's file reference

51461B506935

International filing date (day/month/year)

23 October 1997 (23.10.97)

Priority date (day/month/year)

Applicant

ISU, Yoshimi et al

1. The designated Office is hereby notified of its election made:



in the demand filed with the International Preliminary Examining Authority on:

21 May 1999 (21.05.99)



in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

Sean Taylor

Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 51461B506935	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP97/03846	International filing date (day/month/year) 23 October 1997 (23.10.97)	Priority date (day/month/year)
International Patent Classification (IPC) or national classification and IPC H04N 7/44		
Applicant MITSUBISHI DENKI KABUSHIKI KAISHA		

RECEIVED
AUG 24 2000
TECH CENTER 2109

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 3 sheets, including this cover sheet.
- ☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).
- These annexes consist of a total of _____ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 21 May 1999 (21.05.99)	Date of completion of this report 14 January 2000 (14.01.2000)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP97/03846

I. Basis of the report

1. With regard to the **elements** of the international application:*

- ☒ the international application as originally filed
- ☐ the description:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the claims:
pages _____, as originally filed
pages _____, as amended (together with any statement under Article 19
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the drawings:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP97/03846

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-8,10	YES
	Claims	9	NO
Inventive step (IS)	Claims	1-8,10	YES
	Claims	9	NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO

2. Citations and explanations

Claim 9

Document 1 [JP, 9-139937, A (Fujitsu Ltd.), 27 May, 1997 (27.05.97), paragraph Nos. [0008]-[0013] & US, 5801781, A, 2nd column, lines 16-50] describes an apparatus in which a packet generating section receives an MPEG1 system stream, packet by packet, analyzes the ES header, generates the PES header of MPEG2, and generates PES packets as the MPEG2 stream, and the "first encoded bit stream," "first header information," "second header information," and "second encoded bit stream" of claim 9 correspond to the "MPEG1 system stream," "ES header," "PES header" and "MPEG2 transport stream" respectively. So, the subject matter of claim 9 does not appear to be novel.

Claims 1-5 and 10

Document 2 [JP, 7-143475, A (Hitachi, Ltd.) 2 June, 1995 (02.06.95), paragraph Nos. [0057] and [0075]] cited in the ISR describes a conversion treatment system for ensuring that the image data compressed by JPEG and MPEG are adapted to the display resolution and color system supported by a client.

Document 3 [JP, 8-79758, A (Fujitsu Ltd.), 22 March, 1996 (22.03.96)] cited in the ISR describes a movement compensation predictor which can process both MPEG1 and H.261.

Document 4 [JP, 7-30763, A (Hitachi, Ltd.), 31 January, 1995 (31.01.95)] describes an image encoder and an image decoder which can handle both a JPEG data stream and a DSM (digital storage media) data stream.

However, a technique of judging whether the stream is a first encoded bit stream or a second encoded bit stream with reference to header information, to decode the second encoded bit stream, and of setting the image encoding information of the second encoding system in the first encoded bit stream, to decode the encoded image data contained in the first encoded bit stream, is neither described nor suggested in any of the documents cited in the ISR.

Claims 6-7

A technique for multiplexing header information for securing compatibility with the second encoded bit stream encoded by the second encoding system into the first encoded bit stream, is neither described nor suggested in any of the documents cited in the ISR.

Claim 8

A technique for multiplexing the header information received from a decoding means for securing compatibility, into the received first encoded bit stream, and for transmitting it to the decoding means, is neither described nor suggested in any of the documents cited in the ISR.

国際調査報告

(法8条、法施行規則第40、41条)
〔PCT18条、PCT規則43、44〕

出願人又は代理人 の書類記号 5146B506935	今後の手続きについては、国際調査報告の送付通知様式(PCT/ISA/220) 及び下記5を参照すること。	
国際出願番号 PCT/J P 97/03846	国際出願日 (日.月.年) 23.10.97	優先日 (日.月.年)
出願人(氏名又は名称) 三菱電機株式会社		

国際調査機関が作成したこの国際調査報告を法施行規則第41条(PCT18条)の規定に従い出願人に送付する。
この写しは国際事務局にも送付される。

この国際調査報告は、全部で 2 ページである。

☐ この調査報告に引用された先行技術文献の写しも添付されている。

1. ☐ 請求の範囲の一部の調査ができない(第I欄参照)。
2. ☐ 発明の単一性が欠如している(第II欄参照)。
3. ☐ この国際出願は、ヌクレオチド及び/又はアミノ酸配列リストを含んでおり、次の配列リストに基づき国際調査を行った。
 - ☐ この国際出願と共に提出されたもの
 - ☐ 出願人がこの国際出願とは別に提出したもの
 - ☐ しかし、出願時の国際出願の開示の範囲を越える事項を含まない旨を記載した書面が添付されていない
 - ☐ この国際調査機関が書換えたもの
4. 発明の名称は ☒ 出願人が提出したものを承認する。
☐ 次に示すように国際調査機関が作成した。

5. 要約は ☒ 出願人が提出したものを承認する。
☐ 第III欄に示されているように、法施行規則第47条(PCT規則38.2(b))の規定により国際調査機関が作成した。出願人は、この国際調査報告の発送の日から1カ月以内にこの国際調査機関に意見を提出することができる。
6. 要約書とともに公表される図は、
第5図とする。 ☒ 出願人が示したとおりである。 ☐ なし
☐ 出願人は図を示さなかった。
☐ 本図は発明の特徴を一層よく表している。

A. 発明の属する分野の分類 (国際特許分類 (IPC))

Int Cl⁶ H04N7/44

B. 調査を行った分野

調査を行った最小限資料 (国際特許分類 (IPC))

Int Cl⁶ H04N7/24-7/68

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報 1926-1996
日本国公開実用新案公報 1971-1997

国際調査で使用した電子データベース (データベースの名称、調査に使用した用語)

C. 関連すると認められる文献

引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
X Y A	JP, 7-143475, A (株式会社日立製作所) 2. 6月. 1995 (02. 06. 95) (ファミリーなし)	1, 6, 10 2-4, 7 8, 9
Y	小暮 拓世, 妹尾 孝憲, 「国際標準規格MPEG4の概略決まる」, 日経エレクトロニクス, no. 699, 22. 9月. 1997 (22. 09. 97) (東京), p. 159-160	2-4, 7
X A	JP, 9-139937, A (富士通株式会社) 27. 5月. 1997 (27. 05. 97) (ファミリーなし)	9 1-8, 10
A	JP, 8-79758, A (富士通株式会社) 22. 3月. 1996 (22. 03. 96) (ファミリーなし)	1-10
A	JP, 7-30763, A (株式会社日立製作所) 31. 1月. 1995 (31. 01. 95) (ファミリーなし)	1-10

☐ C欄の続きにも文献が列举されている。☐ パテントファミリーに関する別紙を参照。

* 引用文献のカテゴリー

「A」 特に関連のある文献ではなく、一般的な技術水準を示すもの
「E」 先行文献ではあるが、国際出願日以後に公表されたもの
「L」 優先権主張に疑義を提起する文献又は他の文献の発行日若しくは他の特別な理由を確立するために引用する文献 (理由を付す)
「O」 口頭による開示、使用、展示等に言及する文献
「P」 国際出願日前で、かつ優先権の主張の基礎となる出願

の日の後に公表された文献
「T」 国際出願日又は優先日後に公表された文献であって出願と矛盾するものではなく、発明の原理又は理論の理解のために引用するもの
「X」 特に関連のある文献であって、当該文献のみで発明の新規性又は進歩性がないと考えられるもの
「Y」 特に関連のある文献であって、当該文献と他の1以上の文献との、当業者にとって自明である組合せによって進歩性がないと考えられるもの
「&」 同一パテントファミリー文献

国際調査を完了した日

22. 12. 97

国際調査報告の発送日

13.01.98

国際調査機関の名称及びあて先

日本国特許庁 (ISA/J P)
郵便番号 100

東京都千代田区霞が関三丁目4番3号

特許庁審査官 (権限のある職員)

夏目 健一郎



5C

4227

電話番号 03-3581-1101 内線 3543

(51) 国際特許分類
H04N-7/44

A1

(11) 国際公開番号

WO99/22524

(43) 国際公開日

1999年5月6日(06.05.99)

(21) 国際出願番号

PCT/JP97/03846

(22) 国際出願日

1997年10月23日(23.10.97)

(71) 出願人 (米国を除くすべての指定国について)

三菱電機株式会社

(MITSUBISHI DENKI KABUSHIKI KAISHA)[JP/JP]

〒100 東京都千代田区丸の内二丁目2番3号 Tokyo, (JP)

(72) 発明者 ; および

(75) 発明者 / 出願人 (米国についてのみ)

井須芳美 (ISU, Yoshimi)[JP/JP]

関口俊一 (SEKIGUCHI, Shunichi)[JP/JP]

浅井光太郎 (ASAI, Kohtaro)[JP/JP]

西川博文 (NISHIKAWA, Hirofumi)[JP/JP]

黒田慎一 (KURODA, Shinichi)[JP/JP]

長谷川由里 (HASEGAWA, Yuri)[JP/JP]

〒100 東京都千代田区丸の内二丁目2番3号

三菱電機株式会社内 Tokyo, (JP)

(74) 代理人

弁理士 田澤博昭, 外 (TAZAWA, Hiroaki et al.)

〒100 東京都千代田区霞が関三丁目5番1号

霞が関IHFビル4階 Tokyo, (JP)

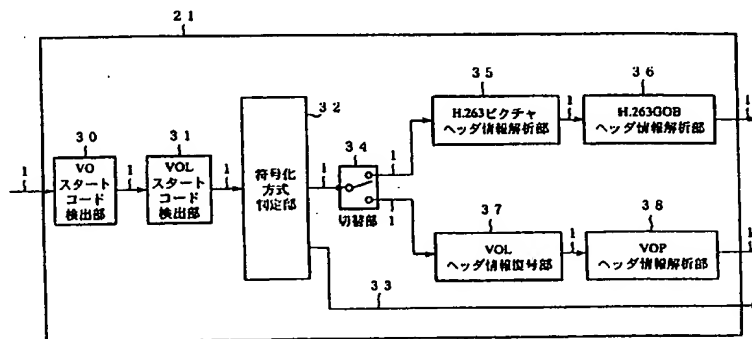
(81) 指定国 CN, JP, KR, MX, SG, US, 欧州特許 (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

添付公開書類

国際調査報告書

(54) Title: IMAGE DECODER, IMAGE ENCODER, IMAGE COMMUNICATION SYSTEM, AND ENCODED BIT STREAM CONVERTER

(54) 発明の名称 画像復号化装置、画像符号化装置、画像通信システム及び符号化ビットストリーム変換装置



30 ... VO start code detection unit

31 ... VOL start code detection unit

32 ... encoding system judging unit

34 ... switching unit

35 ... H.263 picture header information analysis unit

36 ... H.263GOB header information analysis unit

37 ... VOL header information decoding unit

38 ... VOP header information analysis unit

(57) Abstract

An image decoder which can decode an encoded bit stream which is encoded by a different encoding system has an encoding system judging unit which judges the encoding system of the encoded bit stream in accordance with multiplexed encoding system identification information, a setting means which sets the header information of a 2nd encoding system in accordance with the header information of a 1st encoding system and a decoding means which decodes the encoded image data of the 1st encoding system in accordance with the header information of the set 2nd encoding system.

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☒ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER: _____**

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.